## INFRATEC.

## Thermography in Process Automation

VarioCAM<sup>®</sup> high resolution – precise, efficient and reliable

Heat is one of the most important parameters for weal and woe during production processes and for product quality. Therefore, measuring heat has always had major relevance which is reflected by the early use of temperature sensors during the automation of production processes. Now the fast visualization of temperature distributions with non-contacting infrared thermography allows even more complex automated solutions without using contacted temperature sensors.

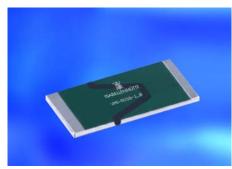
## Isabellenhütte Heusler GmbH & Co. KG

www.isabellenhuette.de

InfraTec Solution: VarioCAM<sup>®</sup> hr head



Mr. Patrick Dobener



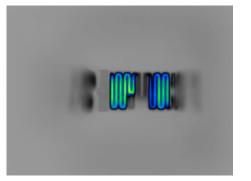
Resistor VMS: Size (6.35 x 3.05) mm

The company Isabellenhütte Heusler GmbH & Co. KG has identified this potential at an early stage and uses infrared thermography for the quality assurance of their low resistance precision resistors. In this application the stationary camera VarioCAM® high



resolution head proves its very high measuring accuracy. Temperature differences of only 35 mK can be detected. Besides this excellent thermal resolution also the possibility to securely measure smallest details provides an essential measuring basis for further automation. This is achieved by a higher detector resolution of (384 x 288) Infrared Pixels, a special close-up focussing as well as by close-up and microscopic lenses.

Furthermore Mr. Dobener of the company Isabellenhütte Heusler GmbH & Co. KG particularly appreciates the very easy integration of the VarioCAM® hr head into the production facilities. That applies for both the mechanics of the camera that stands out with its compact and rugged design and for the data interface with a speed of up to 60 frames per second. The matching functionality of the software development kit supports the precise control of the camera. The trigger ports of the thermographic camera allow for the direct synchronization with the control software of the measuring device. All measuring data are fully issued digitally in real time. Thereby the production facilities can respond even to smallest temperature variations in order to always keep the products of the company Isabellenhütte Heusler GmbH & Co. KG at the very highest level.



Micro thermographic images of low resistance precision resistors

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Phone

Fax

Headquarters InfraTec GmbH Infrarotsensorik und Messtechnik Gostritzer Straße 61 – 63 01217 Dresden / GERMANY

+49 351 871-8630 +49 351 871-8627 E-mail thermo@InfraTec.de www.InfraTec.eu

USA office InfraTec infrared LLC 5048 Tennyson Pkwy. Plano TX 75024 / USA

Phone E-mail

Page 1

+1 844-226-3722 (toll free) thermo@InfraTec-infrared.com www.InfraTec-infrared.com